

In the Drawings

Applicant encloses two sheets of corrected drawing showing Figs. 1, 2, 3, 7, 8, 9 and 10.

In the Specification:

Please replace page 1, lines 17-26 and page 2, lines 1-2 with the following paragraph as follows:

B' "However, where the frequency range of input signals is as high as 20 GHz for instance, the problem of interference between the vertically polarized wave and the horizontally polarized wave becomes significant in the constitution described above. Therefore, where linear polarized waves of an extremely high frequency range are to be received, the inside of the waveguide is branched into two paths, one for the vertically polarized wave and the other for the horizontally polarized wave, and polarized signals detected by probes are prevented from interfering with each other by coupling the vertically polarized wave and the horizontally polarized wave to the probes in their respective propagation paths."

Please replace page 2, lines 3-27 and page 3, lines 1-2 with the following paragraph as follows:

BQ " However, where the vertically polarized wave and the horizontally polarized wave are to be coupled to probes in two separate propagation paths as according to the prior art described above, usually each one of the two probes is fitted to a separate circuit substrate, one circuit substrate being provided with a signal synthesizing means, and signals are transmitted from the other circuit substrate to the circuit substrate provided with the synthesizing means via a connecting section, because the electric field directions of the vertically polarized wave component and the horizontally polarized wave component are orthogonal to each other in the propagation paths. However, synthesis of signals detected by two probes using two circuit substrates not only makes the pattern and structure more complex but also involves the problems of increased signal losses and it is impossible to reduce the interference sufficiently and, moreover, complicates the circuit substrate ability to work on account of the high frequency of the polarized signals.

B2
concl'd

There is also proposed an alternative according to which both probes are fitted to the same circuit substrate and an adapter is provided in between this circuit substrate and the waveguide, which aligns the electric field directions of the vertically polarized wave component and the horizontally polarized wave component into the same direction, but such an adapter would complicate the structure and accordingly this adapter would boost the cost of the structure. "

3
Please replace page ~~4~~, lines 3-8 with the following paragraph as follows:

B3
"In view of the problems involved in the prior art, the present invention provides a simply structured converter for satellite communication reception which can contribute to reducing signal losses and simplifying the assembly work."

Please replace page 4, lines 18-19 with the following paragraph as follows:

B4
"Fig. 2 shows a plan view of the essential part of a case provided in the converter for satellite communication reception."

Please replace page 4, line 20 with the following paragraph as follows:

B5
"Fig. 3 shows a section view along line 3-3 in Fig. 2."

Please replace page 4, lines 21-22 with the following paragraph as follows:

B6
"Fig. 4 shows a plain view of the essential part of a case provided in a second preferred embodiment of the invention."

Please replace page 4, line 23 with the following paragraph as follows:

B7
"Fig. 5 shows a section view along line 5-5 in Fig. 4."

Please replace page 4, line 24 with the following paragraph as follows:

B8
"Fig. 6 shows a section view along line 6-6 in Fig. 4."

Please replace page 4, lines 25-26 with the following paragraph as follows:

B⁹

"Fig. 7 shows a plan view of the essential part of a case provided in a third preferred embodiment of the invention."

Please replace page 5, line 1 with the following paragraph as follows:

B¹⁰

"Fig. 8 shows a section view along line 8-8 in Fig. 7."

Please replace page 5, line 2 with the following paragraph as follows:

B¹¹

"Fig. 9 shows a section view along line 9-9 in Fig. 7."

Please replace page 5, lines 3-4 with the following paragraph as follows:

B¹²

"Fig. 10 shows a section view of the essential part of a case provided in a fourth preferred embodiment of the invention."

Please replace page 5, lines 6-13 with the following paragraph as follows:

B¹³

"Preferred embodiments of the present invention will be described below with references to accompanying drawings. Fig. 1 shows the overall configuration of a converter for satellite communication reception, which is the first preferred embodiment of the invention; Fig. 2, a plan view of the essential part of a case provided in the converter for satellite communication reception, and Fig. 3, a section view along line 3-3 in Fig. 2."

Please replace page 5, lines 14-25 with the following paragraph as follows:

B¹⁴

"As illustrated in Fig. 1, the converter for satellite communication reception embodying the invention in this mode is provided with a wave guide 1 whose inside is branched into two propagation paths 1a and 1b and a case 2 consisting of an electroconductive metallic material. Orthogonal bipolarized signals transmitted from a satellite are entered into the inside of the waveguide 1 through a horn 1c. The waveguide 1 includes a short-circuit rod 3, which receives the orthogonal bipolarized signals. When the short-circuit rod 3 receives these orthogonal bipolarized signals, a horizontally polarized wave in the orthogonal bipolarized signals, for instance, is reflected by the short-circuit rod 3 to proceed in the first propagation path 1a. In other